

Document made available under the Patent Cooperation Treaty (PCT)

International application number: PCT/EG05/000007

International filing date: 26 February 2005 (26.02.2005)

Document type: Certified copy of priority document

Document details: Country/Office: EG
Number: 2004030098
Filing date: 06 March 2004 (06.03.2004)

Date of receipt at the International Bureau: 25 May 2005 (25.05.2005)

Remark: Priority document submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b)



World Intellectual Property Organization (WIPO) - Geneva, Switzerland
Organisation Mondiale de la Propriété Intellectuelle (OMPI) - Genève, Suisse



To Whom It May Concern

The President of the Patent Office certifies that ~~The Center For Documentation Of Cultural And Natural Heritage~~ (Address : Cairo / Alexandria Desert Road , The 28th Km, (Smart Village) , Cairo , Egypt) has filed application No. 2004030098 on 06/03/2004 to obtain a patent for an invention titled :

" CULTURAMA "

The inventor of this application are ~~Mr. Mohammad Farouk Badawi , Fathi Hassan Saleh~~

This Document has been given to ~~Mr. Mohammad Farouk Badawi~~ upon his request dated

01/03/ 2005

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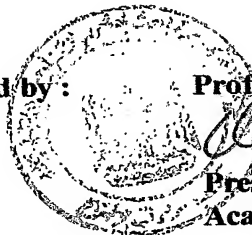
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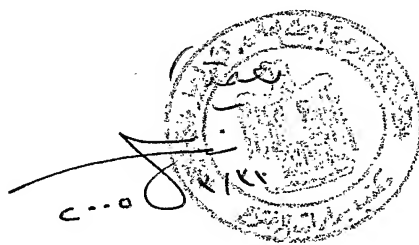
This the translation of the application No.98/2004 filed on 06/03/2004

The full description of the invention

Culturama

The previous art

- An interactive multimedia show on PC screen whose proportion is 3: 4.
- Interactive panoramic display.
- Video or cinema display show whose proportion is 9:16.
- Plasma screen display.
- Cinema display show.
- Using multiple PCs to display a show on multiple screens.



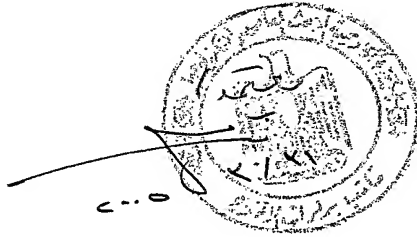
إيثار زارع
شرفه عوله



This the translation of the application No.98/2004 filed on 06/03/2004

The problems or deficiency of the previous art

- For interactive PC display show, it is restricted to a proportion of 3 : 4, and, it is not likely to be changed without ignoring a part of the display area.
- The high cost of interactive panoramic display requiring specific display units in addition to selected equipments and arrangements necessary to preparing and installing these units.
- The other types are all non-interactive, and, concerning video and cinema display and plasma screens are of limited display together with the difficulty of alteration depending on video or cinema films, consequently, the film has to be entirely changed. For panoramic video display is not of limited display area, yet, it is highly cost as well as the difficulty of alteration.
- Finally, the display of multiple PC screens is seamless, meaning; it is uncontrollable regarding the concomitant adjustment for all sets, and the sequent connection of one set to another.



إيثار زارع
شورم حوله



This the translation of the application No.98/2004 filed on 06/03/2004

The new in the invention

- The potentiality of using an operation system of more than one screen output and coordinating the position of these screens to built-in interactive display of 9 seamless screens.
- Developing interactive multimedia program of display area adequate to 9 screens of proportion of 3: 36 where the show is displayed as a complete single unit on the whole area of 9 screens.
- The applied technique of data display on the 9 screens and its optical harmonization to be expressive to the viewer, the usage of huge display area demonstrating the data, photos, and other optical elements in coherent style. As well as the potentiality of displaying views of uncommon dimensions and capturing their parts without the need of minimizing or magnifying these parts, and, watching some pictures of approximately natural size.
- Setting up panoramic screen using 9 flat screens.
- Using personal computer in interactive panoramic display show.



أستاذة زارعة
شؤون محوالة



This the translation of the application No.98/2004 filed on 06/03/2004

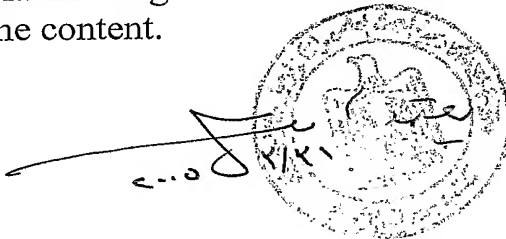
The detailed description

The cultural panorama:

The relevant invention is an interactive panoramic display system using a PC set and based on regular video projectors. The display screen comprises of 9 similar flat units where each picture is projected on every unit out of a projector related to this unit. All the projectors are activated via single PC in such way that the final picture is displayed before the user as a single semicircular screen. 9 screen outputs are installed in the PC so as to connect each output to the related projector; all screens are harmonized as desired via operating system programmed in the PC. The program of displaying information, pictures, and films is developed into a display area covering the screen width of 18 m. and with proportions of 3:36, as a result, huge amount of data can simultaneously be displayed paralleling that amount displayed on 9 separate screens.

The display screen:

It comprises of 9 screens each of which has width of 2 m. (the width can exceed 2.m in respect to the display room area). These screens are arranged so as the angle between every two screens is 22.5° , thus, the angle between the first screen and the last one is 180° . The projectors are placed on equidistance from each screen. The picture is adjusted where the display area of each projector is connected with its adjacent. The panorama technique is applied in displaying a lot of heritage information in illustrative, attracting, and amusing manner. The usage of available equipments not specifically made for that purpose is the most paramount thing that panorama characterized with, which, in turn, minimizing the costs, facilitating the staff of maintenance and being easier to modify and alter the content.



إيلاء زارع
مدرسة حوله



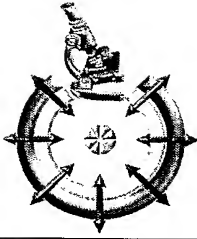
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The exploitation method

The implement of interactive multimedia programs with proportions around 3: 4 to 3: 36 for the purpose of displaying the Egyptian and Arabic heritage.



إنياس زارع
شؤون عولم



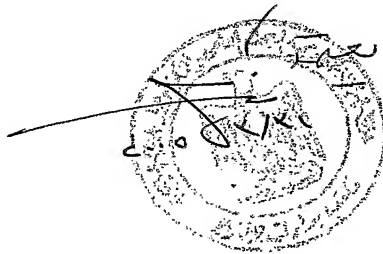
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This the translation of the application No.98/2004 filed on 06/03/2004

Claims

The items needed to be protected

- 1- An innovative interactive multimedia program displayed on a semicircular panoramic screen using one personal computer and nine video projectors.
- 2- according to claim (1), extra VGA cards were equipped to the PC which resulted in having nine screen display area. The Windows Operating System to build a seamless screen with the dimensions 2:3.6.
- 3- According to claim (1), special multimedia program was developed in order to display data on a seamless nine screen projection area.
- 4- According to claim (1), presenting computer driven interactive show on a panoramic semicircular display.
- 5- According to claim (1), using regular projectors to arrange the nine flat screens in a semicircular shape.
- 6- According to claim (1), using PC to produce an interactive semicircular panoramic display system.



إيثار زارع
شؤون محوّل

Arab Republic of Egypt
Ministry of State for Scientific Research
Academy of Scientific Research & Technology
Technology Development & Scientific Services Sector
Egyptian Patent Office



(22)
(21)
(44)
(45)
(11)

(51) Int. Cl.⁶

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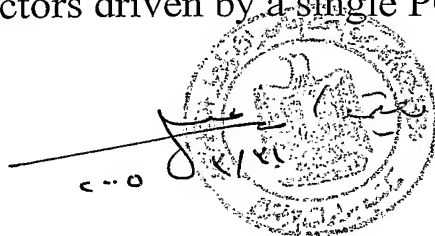
(12) Patent

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Culturama

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The relevant invention is an innovative panoramic display using PC. A set of interactive multimedia programs related to Egyptian and Arabic heritage are displayed in a semicircular screen with a diameter of 10 meters. The display is achieved using regular video projectors driven by a single PC.



إمضاء
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